



~~IN~~ THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

NATHAN et al

Serial No.: 10/632,955

Filed: 04 AUG 2003

Group Art Unit:

For: Method And Systems For Dynamically Controlling Electromagnetic Wave Motion Through A Photonic Crystal § Attorney Docket No.: 27/217

Examiner:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

## INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is PTO Form 1449 which lists citations which may be material to the patentability of the above-identified application.

Also enclosed are copies of the references cited. These are being submitted in compliance with the duty of disclosure defined in 37 C.F.R. 1.56. The Examiner is requested to make these citations of official record in this application.

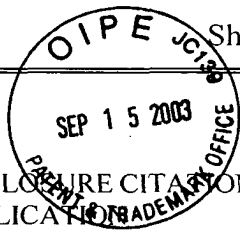
This Information Disclosure Statement Under 37 C.F.R. 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Respectfully submitted,

Mark M. Friedman  
Attorney for Applicant  
Registration No. 33,883  
Date: September 10, 2003

Sheet 1 of 2

Form PTO-1449 (Modified)				Atty. Docket No. 27/217		Application No. 10/632,955		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Applicant: Nathan et al				
				Filing Date: 04 Aug 2003		Group Art Unit:		
U.S. PATENT DOCUMENTS								
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE	
AA		6,580,547	Jun 03	Liu et al				
AB		6,444,133	Sep 02	Fajardo et al				
AC		6,472,804	Oct 02	Mueller et al				
AD		6,542,682	Apr 03	Cotteverte et al				
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
AE								
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
AF		A Three Dimensional Optical Photonic Crystal, Lin et al, Journal Of Lightwave Technology Vol.17, no.11 Nov '99						
AG		Quasimetallic silicon micromachined photonic crystals, Temelkuran et al, Appl. Physics Letters, Vol. 78, no. 3 Jan 2001 pp 264-266						
AH		Fabrication of Photonic Crystals Consisting of Si Nanopillars By Plasma Etching Using Self-Formed Masks, Tada et al, pp 7253-7256, Jpn J Appl Phys, Vol 38 (1999) Pt 1, No. 12B						
AI		Fabrication of two-dimensional photonic crystal waveguides for 1.5um in silicon by deep anisotropic dry etching, Zijlstra et al; 1999 American Vacuum Society pp2734-2739						
AJ		Investigation of a channel-add/drop-filtering device using acceptor-type point defects in a two-dimensional photonic-crystal slab, Asano et al; Applied Physics Letters vol 83 No. 3 July 2003, pp407-409						
EXAMINER					DATE CONSIDERED			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.								

Sheet 2 of 2

Form PTO-1449 (Modified)				Atty. Docket No. 27/217		Application No. 10/632,955		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION FOR PATENT (USE SEVERAL SHEETS IF NECESSARY)				Applicant: Nathan et al				
				Filing Date: 04 Aug 2003		Group Art Unit:		
U.S. PATENT DOCUMENTS								
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUB- CLASS	FILING DATE
BA								
BB								
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
BC								
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
BD		Electrooptical Effects in Silicon, Soref et al; JI of Quantum Electronics, vol. QE-23, no. 1 Jan 87 pp.123-129						
BE		Fabrication of a narrow gold wire using scanning tunneling microscopy; Okamoto et al; , Jpn J Appl Phys, Vol 36 (1997) Pt 1, No. 6B pp.3832-3833						
BF		Fabrication and direct transmission measurement of high-aspect-ratio two-dimensional silicon-based photonic crystal chips, Xu et al, J Opt Soc Am B/Vol 18 No. 8 August 2001pp.1084-1091						
BG		Defect Modes in Two-Dimensional Triangular Photonic Crystals. X. P. Feng et al , Jpn. J. Appl. Phys., 36 pp. L120-L123, 1997						
BH		Narrow Band Microcavity Waveguides In Photonic Crystals, Boag et al, J. Opt. Soc. Am. A, 18(11) pp. 2799-2805, 2001						
BI		Bipolar Semiconductor Devices; Roulston; Section 3.5.2 , Mc-Graw Hill 1990, ISBN 0-07-054120-5,						
BJ		Photonic Crystals: putting a new twist on light, Joannopoulos et al., Nature, vol. 386, Mar. 13, 1997, pp. 143-149						
BK		Design And Sensitivity Analysis Of Narrow Band Photonic Waveguides, Boag et al, URSI Radio Science Meeting, Boston, MA, July 2001, pp 33-35						
BL		Chapter 55 of the "Complete guide to semiconductor devices" by Kwok K. Ng, Mc-Graw Hill, 1995, ISBN 0-07-035860-5, pp 441-445						
BM		Chapter 15 of the "Complete guide to semiconductor devices" by Kwok K. Ng, Mc-Graw Hill, 1995, ISBN 0-07-035860-5, pp. 132-143						
EXAMINER				DATE CONSIDERED				
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